

Title (en)

OPTICAL SENSOR ENCLOSURE WITH INTEGRAL WINDOW AND OPTICAL ALIGNMENT FEATURES

Title (de)

GEHÄUSE EINES OPTISCHEN SENSORS MIT INTEGRIERTEN FENSTER UND MIT MERKMALEN ZUR OPTISCHEN AUSRICHTUNG

Title (fr)

BOÎTIER DE CAPTEUR OPTIQUE DOTÉ D'UNE FENÊTRE INTÉGRÉE ET DE FONCTIONS D'ALIGNEMENT OPTIQUE

Publication

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Application

EP 12710387 A 20120221

Priority

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- US 2012025876 W 20120221

Abstract (en)

[origin: WO2012112988A2] An enclosure for a position sensor (30) includes a housing (44) and a lower cassette (46) that cooperate to provide a sealed volume in which a sensor assembly (26) is enclosed and protected. The sensor assembly (26) includes a light source (54) and a light detector (56). The sensor assembly (26) further includes a light pipe (60) that guides light from the light source (54) onto a target and a lens (62) that guides reflected light from the target onto the light detector (56). The lower cassette (46) is transparent to the light produced by the light source (54) and includes an integral window (40) through which the light enters and exits the lower cassette (46). An upper cassette (64) supports an upper portion of the light pipe (60) and the lens (62). A recess adjacent the window (40) supports a lower portion of the light pipe (60) and the lens (62) in the lower cassette (46), and the upper cassette (64) is received in a receptacle formed inside the lower cassette (46).

IPC 8 full level

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